



www.flex-alert.com

Industry

Precision Agriculture
 – Food Safety
 Food Crop And Product
 Contamination Monitoring



MicroFlex Nodes specs

- Up to 8 sensors per node: temperature, humidity, leaf wetness, soil parameters, heavy metal contamination in water, biosensors;
- Solar power
- Up to 10 km range from the network
- IP65 enclosure
- Operates -10° to +50° C

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INTERNET BASED PRECISION AGRICULTURE SOLUTIONS

Flex Alert Company Ltd has invested in research and development around innovative solutions to the problem of **early** detection of food contaminants in the food production. Company is now ready to bring its solutions to the market. Estimates of annual food losses due to contamination are in the order of billions of metric tons of food and food products; this translates into economic losses as high as \$5 billion per year in North America alone. Timely detection of contamination at all stages of food growth, transportation, storage and delivery allows for substantial loss reduction.

SOLUTION/PRODUCTS

Flex Alert provides an integrated mycotoxin monitoring system based on proprietary biosensor technology. The system employs wireless communication to deliver data to a centralized information control system that provides real-time access to information in the field, during storage and in packaged products. The implementation of Flex Alert's solution enables users to **rapidly** respond to quality issues that impact food production, delivery costs and human health. Data collected in the field is stored on the web server and can be further analyzed for patterns.

MicroFlex FIELD NODES

Internet of Things (IoT) technology opens up dramatic cost reduction of any internet based sensing and monitoring compared to competitor proprietary solutions available on the market today. Smart phone interfaces provide data on the go. Flex Alert developed an affordable platform that allows quick installation of the base nodes connected to the Internet, directly in the field. Sensors can detect temperature, humidity, soil moisture, soil nutrients, etc. Another **unique** option is the biosensor patented by Flex Alert, that detects the presence of mycotoxins.

SERVER BASED FARM MANAGEMENT SOFTWARE

Flex Alert provides WEB based services for farm or orchard management, including GPS location, real-time data on soil condition, nutrients as well as tracking the cost of supplies used in the field.

EARLY SEASON PATHOGEN PREDICTIVE SOFTWARE

Flex Alert's value proposition lies in the automation of toxin monitoring throughout the entire crop production, transportation and storage process. We provide the tools and guidance on pathogen appearance in early season to reduce the cost of spraying. These solutions were proven in Europe to predict the appearance of the following pathogens based on microclimate orchard weather patterns: powdery mildew, brown and black rot, botrytis and others. With our expertise, we can provide services for other pathogens found in **cherries, grapes** and other crops.

